

Triple Review

Review for oil cleaning and machine maintenance - Issue 1 - 2004

The FINNAIR story



Mr. Kossila is Manager Ground Equipment at FINNAIR, Helsinki Airport, a position he has held since early 1990.

His first contact with Triple R was in 1992 when Sune Forsström of Triple R Scandinavia approached him about the importance of clean oil.

Mr. Kossila was always aware of the absolute necessity of clean oil and readily agreed to perform a trial program using Triple R.

Even before using Triple R he continuously trained his staff to pay attention to oil cleanliness and oil filtration.



APPLICATIONS

Finnair runs multiple numbers of equipment in every airport in Finland that takes care of all handling related to:

- catering supply,
- luggage handling for passenger flights,
- cargo handling for commercial flights.

Their customers are not only Finnair but also many other airline companies like SAS, Lufthansa, FEDEX, DHL and many others.

The equipment mainly consists of:

- ROFAN towing tractors.
- TREPEL pallet container and catering loaders, with a 3,5 to 30 Ton loading capacity.

All these tractors and loaders have 4 wheel drive that use hydrostatic drive.

The loaders additionally have a hydraulic system used for lifting luggage or cargo.

PROBLEM ISSUE

All machinery is operated outside and has to face extreme weather conditions. From nice warm summer time conditions down to severe winter conditions. Mister Kossila mentioned extreme low temperatures of -45 °C !!!

It is clear that this kind of extreme situations have very stressful effects on oil life and result in accelerated hydraulic equipment failures.

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Mr. Kossila says:

“The combination of TRIPLE R and high quality synthetic oil worked out to be the key to a zero-failure operation of our hydraulic equipment”.



TEST SETUP and RESULTS

The trials were done on several TREPTEL container lifts back in 1992.

After 8 months of testing they achieved following results:

Before : NAS 9 to NAS 12

With Triple R : NAS 4 to NAS 6

The Triple R installations were done by Finnair's own technical department.

As can be seen from the pictures below, space was sometimes severely restricted.

However Triple R's very compact build made it possible to install it on every hydraulic system they had.

Currently there are almost a hundred pieces of equipment fitted with Triple R.

FINNAIR is amongst airline companies that are very profitable. Not an easy task nowadays.

I'm sure Mr. Kossila's very professional approach explains a part of Finnair's success!



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